

A method of detecting a sequence of information symbols, and a mobile station adapted to performing the method

5 ABSTRACT:

The invention relates to a method of detecting a sequence of information symbols from a first signal subjected to inter-symbol interference. The method is performed as one or more signal processing paths are each being adapted to setting each symbol in the sequence to a value. When an uncertain decision has been taken in a given signal processing path, the signal processing path is divided into two. After setting a number of symbols, the sequence of information symbols from one of said one or more signal processing paths as the detected sequence of information symbols is selected. The threshold used to determine whether a symbol is certain or not is adjusted in accordance with an estimate of said noise.

20 The invention also relates to an apparatus adapted to performing the method.

According to the invention the number of symbol errors when detecting a signal subjected to inter-symbol interference, e.g. in a mobile station, is reduced, and therefore the performance of the receiver is improved. Since unnecessary calculations are minimised, computational complexity is reduced which, in turn, reduces the power consumption.

Figure 4 should be published.